

**Data Validation Checklist**  
**Semivolatile Organic Analyses**

Project: 35<sup>TH</sup> Avenue Superfund Site  
 Laboratory: TestAmerica - Savannah, GA  
 Method: SW-846 8270C Low-Level (PAH)  
 Matrix: Soil  
 Reviewer: Karen Marie Trujillo  
 Concurrence<sup>1</sup>: Martha Meyers-Lee

Project No: 15268508.20000  
 Job ID.: 680-85860-4  
 Associated Samples: Refer to Attachment A (Sample Summary)  
 Samples Collected: 12/13/2012 & 12/14/2012  
 Date: 1/28/2013  
 Date: 03/01/2013

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
1. Were sample storage and preservation requirements met? If temperature >6°C, then J/UJ-flag results.	✓				
2. Were all COC records signed and integrity seals intact, indicating that COC was maintained for all samples?	✓				
3. Were there any problems noted in laboratory data package concerning condition of samples upon receipt?		✓			
4. Do any soil samples contain more than 50% water? If yes, then results are to be reported on a wet-weight basis.		✓			
5. Were holding times met ( $\leq$ 7 and 14 days from collection to extraction for aqueous and solid samples, respectively; $\leq$ 40 days from extraction to analysis)? If not, then J/UJ-flag sample results. If grossly (2x) exceeded, then flag J/R.	✓				
6. Were results for all project-specified target analytes reported?	✓				
7. Were project-specified Reporting Limits achieved for undiluted sample analyses?	✓				
8. Were samples with analyte concentrations exceeding the calibration range of the instrument re-analyzed at a higher dilution? If not, then J-flag sample result.		✓			
9. Was a method blank extracted with each batch (i.e., one per 20 samples, per batch, per matrix and per level)?	✓				
10. Were target analytes detected in the method blank?		✓			
11. Were target analytes detected in equipment/rinsate blanks?		✓		PAHs were not detected during the analysis of rinsate blank 121112-RB-Shovel (680-85731-47).	
12. Are equipment/rinsate blanks associated with every sample? If		✓		According to the QAPP, a rinsate blank is to be collected after each decontamination event, which	

<sup>1</sup> Independent technical reviewer

**Data Validation Checklist (Continued)**

<b>Review Questions</b>	<b>Yes</b>	<b>No</b>	<b>N/A</b>	<b>Samples (Analytes) Affected/Comments</b>	<b>Flag</b>
no, note in DV report.				occurs once per week per the client. A rinsate blank (121112-RB-Shovel) was collected during the week of 12/10/12. The rinsate blank was analyzed for PAHs under Test America Job ID 680-85731-3.	
13. Were analytes detected in samples below the blank contamination action level? If yes, U-flag positive sample results <5x associated blank concentration (10x for common blank contaminants – phthalates)			✓	Blank contamination does not exist.	
14. Is a field duplicate associated with this Job?		✓			
15. Was precision deemed acceptable as defined by the project plans?			✓		
16. Were DFTPP ion abundance criteria (i.e., Table 3 of SW-846 8270C) met? If no, professional judgment may be applied to determine to what extent the data may be utilized.	✓			<p>Alternate tuning criteria were used by the laboratory (i.e., EPA Method 525.2). All ion abundance criteria were met per EPA Method 525.2.</p> <p>The laboratory was notified that the Form Vs included in the data package of 12/29/2012 were incomplete and contained transcription errors. Revised Form Vs were provided by the laboratory on 02/14/2013 (refer to <b>Attachment B</b>).</p>	
17. Were samples analyzed within 12 hours of the DFTPP tune? If no, professional judgment may be applied to determine to what extent the data may be utilized.	✓				
18. Were initial and continuing calibration standards analyzed at the proper frequency for each instrument? <ul style="list-style-type: none"> <li>• Ensure that a minimum of five standards are used for the initial calibration. If no, use professional judgment to determine the effect on the data and note in the reviewer narrative.</li> <li>• An initial calibration is to be associated with each sample analysis.</li> <li>• A continuing calibration standard is to be analyzed for every 12 hours of sample analysis per instrument.</li> </ul>	✓			<ul style="list-style-type: none"> <li>• Instrument ID: MSK</li> <li>• Initial Calibration: 12/14/2012</li> <li>• ICV: 12/14/2012 @ 10:58 (Associated ICV data provided by the laboratory on 2/14/2013, refer to <b>Attachment B</b>)</li> <li>• CCV: 12/21/12 @ 09:04</li>   <li>• Instrument ID: MSK</li> <li>• Initial Calibration: 12/26/2012</li> <li>• ICV: 12/26/12 @ 17:51 (Associated ICV data provided by the laboratory on 2/14/2013, refer to <b>Attachment B</b>)</li>   <li>• Instrument ID: MSY</li> <li>• Initial Calibration: 12/21/2012</li> </ul>	

## Data Validation Checklist (Continued)

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
				<ul style="list-style-type: none"> <li>• ICV: 12/21/12 @ 13:52 (Associated ICV data provided by the laboratory on 2/14/2013, refer to <b>Attachment B</b>)</li> <li>• CCV: 12/21/12 @ 19:31 &amp; 12/27/12 @ 14:13</li> </ul>	
19. Were calibration results within laboratory/project specifications? <ul style="list-style-type: none"> <li>• ICAL (Criteria: <math>\leq 15</math> mean %RSD with no individual CCC %RSD <math>\leq 30</math> (<math>\leq 50\%</math> for poor performers), OR <math>r \geq 0.995</math>, OR <math>r^2 \geq 0.99</math>, and RRF <math>\geq 0.050</math> (<math>\geq 0.010</math> for poor performers)):               <ul style="list-style-type: none"> <li>◦ If %RSD <math>&gt; 15</math> (<math>&gt; 50\%</math> for poor performers), or <math>r &lt; 0.995</math>, or <math>r^2 &lt; 0.995</math>, then J-flag positive results and UJ-flag non-detects</li> <li>◦ If mean RRF <math>&lt; 0.050</math> (<math>&lt; 0.010</math> for poor performers), then J-flag positive results and R-flag non-detects</li> </ul> </li> <li>• ICV and CCV (Criteria: <math>\leq 20\%</math>D (<math>\leq 50\%</math> for poor performers) and RF <math>\geq 0.050</math> (<math>\geq 0.010</math> for poor performers)):               <ul style="list-style-type: none"> <li>◦ If %D <math>&gt; 20</math> (<math>&gt; 50\%</math> for poor performers), then J-flag positive results and UJ-flag non-detects</li> <li>◦ If RF <math>&lt; 0.050</math> (<math>&lt; 0.010</math> for poor performers), then UJ-flag non-detected semivolatile target compounds</li> </ul> </li> </ul>	✓		CCV of 12/21/12 @ 19:31, instrument MSY: Indeno[1,2,3-cd]pyrene @ -24.4%D (Laboratory/Project: <20.0). J-Flag detected results in associated samples <sup>2</sup> , because a positive bias is indicated by the negative CCV percent difference.	J	
20. Was a LCS prepared for each batch and matrix?	✓				
21. Were LCS recoveries within lab control limits? If no, J-flag positive results when %R > Upper Control Limit (UCL) and J/R-flag results when %R < Lower Control Limit (LCL).	✓				
22. Were LCS/LCSD RPD within lab specifications? If no, J-flag positive results and UJ-flag non-detects			✓	LCS Only	
23. Was a MS/MSD pair extracted at the proper frequency (one per 20 samples per batch)?	✓				
24. Is the MS/MSD parent sample a project-specific sample?	✓			Prep Batch 260564: 680-85860-63 (CV0511TTT-CS), MS/MSD	
25. Were MS/MSD recoveries within laboratory/project specifications? <i>Only QC results for project samples are evaluated.</i> <ul style="list-style-type: none"> <li>• If the native sample concentration <math>&gt; 4x</math> spiking level, then an evaluation of interference is not possible.</li> <li>• If either MS or MSD recovery meets control limits,</li> </ul>		✓		CV0511TTT-GS (680-85860-63): Fluoranthene @ 31 and 29%R (36-147). J-Flag positive result.	J

<sup>2</sup> Associated sample: CV0550B-CS (680-85860-71)

## Data Validation Checklist (Continued)

Review Questions	Yes	No	N/A	Samples (Analytes) Affected/Comments	Flag
qualification of data is not warranted. <ul style="list-style-type: none"><li>• MS and MSD %R&lt;10: J and R Flag positive and ND results, respectively</li><li>• MS and MSD %R &gt;10 and &lt;LCL: J-Flag positive and UJ-flag non-detect results</li><li>• MS and MSD R% &gt;UCL (or 140): J-Flag positive results</li></ul>					
26. Were laboratory criteria met for precision during the MS/MSD analysis? <i>Only QC results for project samples are evaluated.</i> <ul style="list-style-type: none"><li>• If the native sample concentration &gt; 4x spiking level, then an evaluation of interference is not possible.</li><li>• If %RPD &gt; UCL, J-flag positive result and UJ-flag non-detect result</li></ul>	✓				
27. Were surrogate recoveries within lab/project specifications? <ul style="list-style-type: none"><li>• If %R for 1 Acid or BN surrogates &lt;10, then J-flag positive and R-flag non-detect associated sample results</li><li>• If 2 or more Acid or BN %R &gt;UCL, then J-flag positive results</li><li>• If 2 or more Acid or BN %R ≥10%, but &lt;LCL, then J-flag positive results and UJ-flag non-detect results</li><li>• If 2 or more Acid or BN , with 1 %R &gt;UCL and 1 %R ≥10%, but &lt;LCL, then J-flag positive results and UJ-flag non-detect results</li></ul>		✓		o-Terphenyl was not recovered during the analysis of all samples, except CV0511AE-GS (680-85860-61) and CV0511TTT-GS (680-85860-63). Qualification of data is not warranted, because the surrogate was not recovered due to sample dilution.	None
28. Were internal standard (IS) results within lab/project specifications? <ul style="list-style-type: none"><li>• If IS area counts are less than 50% of the midpoint calibration standard, then J-flag positive and UJ-flag non-detect associated sample results</li><li>• If IS area counts are greater than 100% of the midpoint calibration standard, then J-flag positive results</li><li>• If extremely low area counts are reported or performance exhibits a major abrupt drop-off, then a severe loss of sensitivity is indicated, J-flag positive and R-flag non-detect results</li><li>• If retention time of sample's internal standard is not within 30 seconds of the associated calibration standard, R-flag associated data.</li><li>• The chromatographic profile for that sample must be examined to determine if any false positives or negatives</li></ul>		✓		During the 12/27/12 analysis of sample CV0319B-CS (680-85860-78), area counts (31,478) for perylene-d12 were outside of control limits (i.e., 34,526-138,104). The sample's area counts are less than 50% of the midpoint calibration standard. Therefore, sample results (i.e., indeno(1,2,3-cd)pyrene, dibenzo(a,h)anthracene, and benzo(g,h,i)perylene) that are quantitated using internal standard perylene-d12 are estimated (J)	J

**Data Validation Checklist (Continued)**

<b>Review Questions</b>	<b>Yes</b>	<b>No</b>	<b>N/A</b>	<b>Samples (Analytes) Affected/Comments</b>	<b>Flag</b>
exists. For shifts of large magnitude, the reviewer may consider partial or total rejection of the data for that sample fraction. Positive results need not be qualified as R, if mass spectral criteria are met.					
29. Were lab comments included in report?	✓			Refer to <b>Attachment C</b> (Case Narrative)	
<b>Comments:</b> The data validation was conducted in accordance with the <i>Non-Industrial Use Property Sampling Event QAPP for the 35th Avenue Removal Site, Birmingham, Alabama, Revision 1</i> (OTIE, October 2012). The data review process was modeled after the <i>USEPA Contract Laboratory Program (CLP) National Functional Guidelines (NFG) for Organic Methods Data Review</i> (EPA, October 1999) and <i>USEPA CLP NFG for Low Concentration Organic Methods Data Review</i> (EPA, June 2001). Sample results have been qualified based on the results of the data review process ( <b>Attachment D</b> ). Criteria for acceptability of data were based upon available site information, analytical method requirements, guidance documents, and professional judgment.					

**DV Flag Definitions:**

- J        The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.  
 R        The sample results are unusable. The analyte may or may not be present in the sample.  
 U        The analyte was analyzed for, but was not detected above the associated level; blank contamination may exist.  
 UJ      The analyte was not detected above the limit, and the limit is approximate and may be inaccurate or imprecise.

**ATTACHMENT A**  
**SAMPLE SUMMARY**

## Sample Summary

Client: Oneida Total Integrated Enterprises LLC  
Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-85860-4  
SDG: 68085860-4

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-85860-61	CV0511AE-GS	Solid	12/13/12 15:15	12/15/12 10:03
680-85860-63	CV0511TTT-GS	Solid	12/13/12 15:40	12/17/12 09:24
680-85860-70	CV0550A-CS	Solid	12/13/12 09:03	12/17/12 09:24
680-85860-71	CV0550B-CS	Solid	12/14/12 08:47	12/17/12 09:24
680-85860-72	FM0251A-CS	Solid	12/14/12 10:18	12/17/12 09:24
680-85860-73	FM0251B-CS	Solid	12/14/12 10:00	12/17/12 09:24
680-85860-74	FM0251C-CS	Solid	12/14/12 10:05	12/17/12 09:24
680-85860-75	HP0282B-CS	Solid	12/14/12 10:15	12/17/12 09:24
680-85860-76	HP0282A-CS	Solid	12/14/12 10:00	12/17/12 09:24
680-85860-77	CV0319A-CS	Solid	12/14/12 08:45	12/17/12 09:24
680-85860-78	CV0319B-CS	Solid	12/14/12 09:05	12/17/12 09:24

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**ATTACHMENT B**

**DATA PACKAGE ADDENDUM**

FORM V  
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK  
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: TestAmerica Savannah

Job No.: 680-85860-4

SDG No.: 68085860-4

Lab File ID: k11402t.d

DFTPP Injection Date: 12/14/2012

Instrument ID: MSK

DFTPP Injection Time: 07:59

Analysis Batch No.: 259918

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0 % of mass 442	11.5
68	Less than 2.0 % of mass 69	0.0 (0.0)1
69	Mass 69 relative abundance	12.8
70	Less than 2.0 % of mass 69	0.1 (1.0)1
127	10.0 - 80.0 % of mass 442	25.5
197	Less than 2.0 % of mass 198	0.0 (0.0)2
198	Greater than 50.0 % of mass 442	53.1
199	5.0 - 9.0 % of mass 198	3.8 (7.2)2
275	10.0 - 60.0 % of mass 442	14.5
365	Greater than 1.0 % of mass 442	2.4
441	Present but less than mass 443	0.0
442	Base Peak, 100% relative abundance	100.0
443	15.0 - 24.0 % of mass 442	19.2

1-Value is % mass 69

2-Value is % mass 198

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	IC 680-259918/2	k11403q.d	12/14/2012	08:15
	IC 680-259918/3	k11404q.d	12/14/2012	08:39
	IC 680-259918/4	k11405q.d	12/14/2012	09:02
	IC 680-259918/5	k11406q.d	12/14/2012	09:25
	IC 680-259918/6	k11407q.d	12/14/2012	09:49
	IC 680-259918/7	k11408q.d	12/14/2012	10:12
	ICIS 680-259918/8	k11409q.d	12/14/2012	10:35
	ICV 680-259918/9	k11410q.d	12/14/2012	10:58

FORM V  
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK  
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: TestAmerica Savannah

Job No.: 680-85860-4

SDG No.: 68085860-4

Lab File ID: k12102t.d

DFTPP Injection Date: 12/21/2012

Instrument ID: MSK

DFTPP Injection Time: 08:47

Analysis Batch No.: 261200

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0 % of mass 442	14.8
68	Less than 2.0 % of mass 69	0.2 (1.0)1
69	Mass 69 relative abundance	15.5
70	Less than 2.0 % of mass 69	0.2 (1.3)1
127	10.0 - 80.0 % of mass 442	28.6
197	Less than 2.0 % of mass 198	0.0 (0.0)2
198	Greater than 50.0 % of mass 442	59.8
199	5.0 - 9.0 % of mass 198	4.1 (6.9)2
275	10.0 - 60.0 % of mass 442	17.0
365	Greater than 1.0 % of mass 442	2.1
441	Present but less than mass 443	16.3
442	Base Peak, 100% relative abundance	100.0
443	15.0 - 24.0 % of mass 442	19.1

1-Value is % mass 69

2-Value is % mass 198

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 680-261200/2	k12103q.d	12/21/2012	09:04
CV0511TTT-GS MS	680-85860-63 MS	k12115.d	12/21/2012	13:47
CV0511TTT-GS MSD	680-85860-63 MSD	k12116.d	12/21/2012	14:11
CV0511AE-GS	680-85860-61	k12127.d	12/21/2012	18:29
CV0511TTT-GS	680-85860-63	k12129.d	12/21/2012	19:16
CV0550A-CS	680-85860-70	k12130.d	12/21/2012	19:39
FM0251B-CS	680-85860-73	k12131.d	12/21/2012	20:03
FM0251A-CS	680-85860-72	k12132.d	12/21/2012	20:26

FORM V  
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK  
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: TestAmerica Savannah

Job No.: 680-85860-4

SDG No.: 68085860-4

Lab File ID: k12611t.d

DFTPP Injection Date: 12/26/2012

Instrument ID: MSK

DFTPP Injection Time: 14:51

Analysis Batch No.: 261203

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0 % of mass 442	10.8
68	Less than 2.0 % of mass 69	0.0 (0.2)1
69	Mass 69 relative abundance	11.4
70	Less than 2.0 % of mass 69	0.1 (0.9)1
127	10.0 - 80.0 % of mass 442	23.6
197	Less than 2.0 % of mass 198	0.0 (0.0)2
198	Greater than 50.0 % of mass 442	52.0
199	5.0 - 9.0 % of mass 198	3.5 (6.7)2
275	10.0 - 60.0 % of mass 442	14.2
365	Greater than 1.0 % of mass 442	2.1
441	Present but less than mass 443	0.0
442	Base Peak, 100% relative abundance	100.0
443	15.0 - 24.0 % of mass 442	19.3

1-Value is % mass 69

2-Value is % mass 198

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	IC 680-261203/2	k12612q.d	12/26/2012	15:08
	IC 680-261203/3	k12613q.d	12/26/2012	15:31
	IC 680-261203/4	k12614q.d	12/26/2012	15:55
	IC 680-261203/5	k12615q.d	12/26/2012	16:18
	IC 680-261203/6	k12616q.d	12/26/2012	16:41
	IC 680-261203/7	k12617q.d	12/26/2012	17:04
	ICIS 680-261203/8	k12618q.d	12/26/2012	17:28
	ICV 680-261203/9	k12619q.d	12/26/2012	17:51
FM0251C-CS	680-85860-74	k12625.d	12/26/2012	20:12
HP0282B-CS	680-85860-75	k12626.d	12/26/2012	20:36

FORM V  
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK  
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: TestAmerica Savannah

Job No.: 680-85860-4

SDG No.: 68085860-4

Lab File ID: y12105t.d

DFTPP Injection Date: 12/21/2012

Instrument ID: MSY

DFTPP Injection Time: 10:58

Analysis Batch No.: 261214

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0 % of mass 442	19.5
68	Less than 2.0 % of mass 69	0.4 (2.0)1
69	Mass 69 relative abundance	20.6
70	Less than 2.0 % of mass 69	0.3 (1.3)1
127	10.0 - 80.0 % of mass 442	31.6
197	Less than 2.0 % of mass 198	0.8 (1.0)2
198	Greater than 50.0 % of mass 442	83.9
199	5.0 - 9.0 % of mass 198	5.3 (6.3)2
275	10.0 - 60.0 % of mass 442	22.2
365	Greater than 1.0 % of mass 442	3.0
441	Present but less than mass 443	14.4
442	Base Peak, 100% relative abundance	100.0
443	15.0 - 24.0 % of mass 442	19.6

1-Value is % mass 69

2-Value is % mass 198

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	IC 680-261214/2	y12106q.d	12/21/2012	11:14
	IC 680-261214/3	y12107q.d	12/21/2012	11:37
	IC 680-261214/4	y12108q.d	12/21/2012	11:59
	IC 680-261214/5	y12109q.d	12/21/2012	12:22
	IC 680-261214/6	y12110q.d	12/21/2012	12:44
	IC 680-261214/7	y12111q.d	12/21/2012	13:07
	ICIS 680-261214/8	y12112q.d	12/21/2012	13:30
	ICV 680-261214/9	y12113q.d	12/21/2012	13:52
CV0319A-CS	680-85860-77	y12121.d	12/21/2012	17:53

FORM V  
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK  
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: TestAmerica Savannah

Job No.: 680-85860-4

SDG No.: 68085860-4

Lab File ID: y12125t.d

DFTPP Injection Date: 12/21/2012

Instrument ID: MSY

DFTPP Injection Time: 19:15

Analysis Batch No.: 261204

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0 % of mass 442	44.1
68	Less than 2.0 % of mass 69	0.7 (1.5)1
69	Mass 69 relative abundance	45.7
70	Less than 2.0 % of mass 69	0.0 (0.0)1
127	10.0 - 80.0 % of mass 442	68.7
197	Less than 2.0 % of mass 198	1.5 (1.0)2
198	Greater than 50.0 % of mass 442	142.1
199	5.0 - 9.0 % of mass 198	9.5 (6.7)2
275	10.0 - 60.0 % of mass 442	31.4
365	Greater than 1.0 % of mass 442	2.5
441	Present but less than mass 443	15.3
442	Base Peak, 100% relative abundance	100.0
443	15.0 - 24.0 % of mass 442	19.6

1-Value is % mass 69

2-Value is % mass 198

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 680-261204/2	y12126q.d	12/21/2012	19:31
CV0550B-CS	680-85860-71	y12127.d	12/21/2012	19:54

FORM V  
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK  
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: TestAmerica Savannah Job No.: 680-85860-4  
SDG No.: 68085860-4  
Lab File ID: y12701t.d DFTPP Injection Date: 12/27/2012  
Instrument ID: MSY DFTPP Injection Time: 13:57  
Analysis Batch No.: 261231

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0 % of mass 442	29.5
68	Less than 2.0 % of mass 69	0.4 (1.3)1
69	Mass 69 relative abundance	32.4
70	Less than 2.0 % of mass 69	0.0 (0.0)1
127	10.0 - 80.0 % of mass 442	46.8
197	Less than 2.0 % of mass 198	1.0 (0.9)2
198	Greater than 50.0 % of mass 442	109.6
199	5.0 - 9.0 % of mass 198	8.0 (7.3)2
275	10.0 - 60.0 % of mass 442	26.7
365	Greater than 1.0 % of mass 442	3.6
441	Present but less than mass 443	14.3
442	Base Peak, 100% relative abundance	100.0
443	15.0 - 24.0 % of mass 442	20.7

1-Value is % mass 69

2-Value is % mass 198

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 680-261231/2	y12702q.d	12/27/2012	14:13
HP0282A-CS	680-85860-76	y12706.d	12/27/2012	16:17
CV0319B-CS	680-85860-78	y12708.d	12/27/2012	17:08

FORM VII  
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Savannah

Job No.: 680-85860-4

SDG No.: 68085860-4

Lab Sample ID: ICV 680-259918/9

Calibration Date: 12/14/2012 10:58

Instrument ID: MSK

Calib Start Date: 12/14/2012 08:15

GC Column: RXi- 5Sil MS ID: 0.25 (mm)

Calib End Date: 12/14/2012 10:35

Lab File ID: k11410q.d

Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	1.181	1.140		6.70	2.00	-3.5	20.0
2-Methylnaphthalene	Ave	0.7535	0.7529		6.70	2.00	-0.0	20.0
1-Methylnaphthalene	Ave	0.7648	0.6984		6.70	2.00	-8.7	20.0
Acenaphthylene	Ave	2.036	1.815		6.70	2.00	-10.8	20.0
Acenaphthene	Ave	1.178	1.126		6.70	2.00	-4.4	20.0
Fluorene	Ave	1.354	1.280		6.70	2.00	-5.5	20.0
Phenanthrene	Ave	1.289	1.168		6.70	2.00	-9.4	20.0
Anthracene	Ave	1.277	1.169		6.70	2.00	-8.5	20.0
Fluoranthene	Ave	1.375	1.255		6.70	2.00	-8.7	20.0
Pyrene	Ave	1.505	1.414		6.70	2.00	-6.0	20.0
Benzo[a]anthracene	Ave	1.349	1.252		6.70	2.00	-7.2	20.0
Chrysene	Ave	1.310	1.156		6.70	2.00	-11.8	20.0
Benzo[b]fluoranthene	Ave	1.396	1.303		6.70	2.00	-6.6	20.0
Benzo[k]fluoranthene	Ave	1.351	1.245		6.70	2.00	-7.8	20.0
Benzo[a]pyrene	Ave	1.124	1.101		1.96	2.00	-2.0	20.0
Indeno[1,2,3-cd]pyrene	Ave	1.244	1.043		6.70	2.00	-16.2	20.0
Dibenz(a,h)anthracene	Ave	1.039	0.8858		6.70	2.00	-14.7	20.0
Benzo[g,h,i]perylene	Ave	1.097	0.9507		6.70	2.00	-13.3	20.0
o-Terphenyl	Ave	0.8562	0.8292		1.94	2.00	-3.1	20.0

TESTAMERICA SAVANNAH

Semivolatile REPORT SW-846 Method 8270C  
Data file : /chem/SM/MSK5973.i/1k121412.b/k11410q.d  
Lab Smp Id: CCV-2898487; LLPAH  
Inj Date : 14-DEC-2012 10:58  
Operator : LEG Inst ID: MSK5973.i  
Smp Info : CCV-2898487; LLPAH  
Misc Info :  
Comment : analysis of PAHs  
Method : /chem/SM/MSK5973.i/1k121412.b/k-b8270CLLPAH-m.m  
Meth Date : 14-Dec-2012 12:06 chemist Quant Type: ISTD  
Cal Date : 14-DEC-2012 10:35 Cal File: k11409q.d  
Als bottle: 10 Continuing Calibration Sample  
Dil Factor: 1.00000  
Integrator: HP RTE Compound Sublist: TL2007.sub  
Target Version: 3.50  
Processing Host: savchem1

Compounds	QUANT SIG	AMOUNTS						
		MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)
*	1 Naphthalene-d8	136	4.906	4.906 (1.000)		1009336	2.00000	
	2 Naphthalene	128	4.930	4.930 (1.005)		1150974	2.00000	1.93
	3 2-Methylnaphthalene	142	5.617	5.617 (1.145)		759938	2.00000	1.99
	4 1-Methylnaphthalene	142	5.717	5.717 (1.165)		704923	2.00000	1.82
	6 Acenaphthylene	152	6.569	6.569 (0.977)		1034205	2.00000	1.78
*	5 Acenaphthene-d10	164	6.722	6.722 (1.000)		569776	2.00000	
	7 Acenaphthene	154	6.757	6.757 (1.005)		641778	2.00000	1.91
	8 Fluorene	166	7.321	7.321 (1.089)		729229	2.00000	1.89
*	9 Phenanthrene-d10	188	8.355	8.355 (1.000)		809918	2.00000	
	10 Phenanthrene	178	8.379	8.379 (1.003)		945961	2.00000	1.81
	11 Anthracene	178	8.437	8.437 (1.010)		946402	2.00000	1.83
\$	15 o-Terphenyl	230	8.767	8.767 (0.784)		601536	2.00000	1.93
	12 Fluoranthene	202	9.665	9.665 (1.157)		1016210	2.00000	1.82
	14 Pyrene	202	9.912	9.912 (0.886)		1026067	2.00000	1.87
	16 Benzo(a)Anthracene	228	11.170	11.170 (0.999)		907914	2.00000	1.85
*	13 Chrysene-d12	240	11.181	11.181 (1.000)		725404	2.00000	
	17 Chrysene	228	11.211	11.211 (1.003)		838811	2.00000	1.76
	19 Benzo(b)fluoranthene	252	12.468	12.468 (0.958)		894443	2.00000	1.86
	20 Benzo(k)fluoranthene	252	12.503	12.503 (0.960)		854825	2.00000	1.84
	21 Benzo(a)pyrene	252	12.938	12.938 (0.994)		756038	2.00000	1.96
*	18 Perylene-d12	264	13.020	13.020 (1.000)		686421	2.00000	
	22 Indeno(1,2,3-cd)pyrene	276	14.942	14.942 (1.336)		756445	2.00000	1.67
	23 Dibenzo(a,h)anthracene	278	14.977	14.977 (1.150)		608002	2.00000	1.70
	24 Benzo(g,h,i)perylene	276	15.529	15.529 (1.193)		652587	2.00000	1.73

Data File: k11410q.d

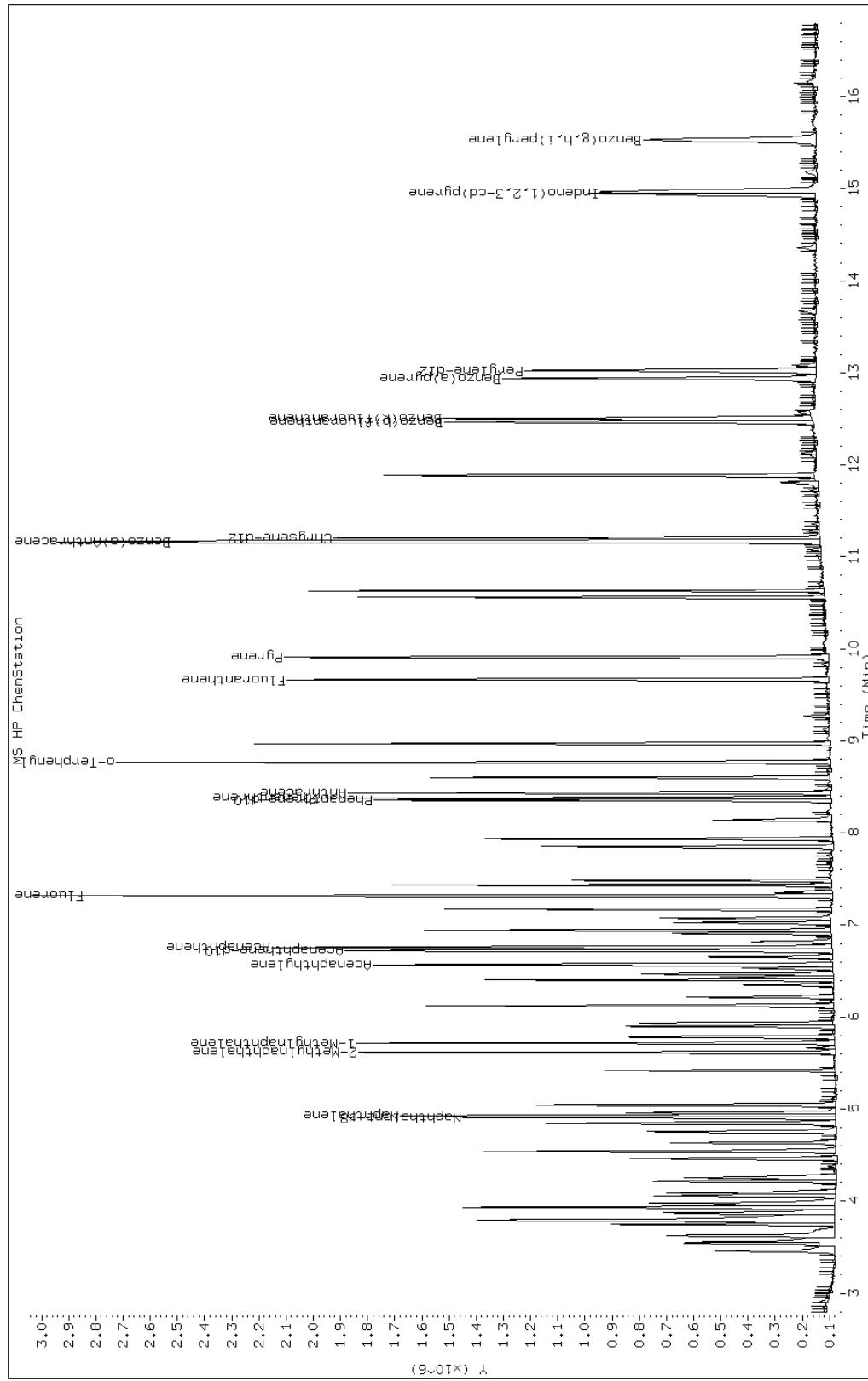
Date: 14-DEC-2012 10:58

C1ient TD:

Instrument: MSK5973.i

Sample Info: CCV-2898487: I.I.PAH

Operator: TEG



FORM VII  
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Savannah

Job No.: 680-85860-4

SDG No.: 68085860-4

Lab Sample ID: ICV 680-261203/9

Calibration Date: 12/26/2012 17:51

Instrument ID: MSK

Calib Start Date: 12/26/2012 15:08

GC Column: RXi- 5Sil MS ID: 0.25 (mm)

Calib End Date: 12/26/2012 17:28

Lab File ID: k12619q.d

Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	1.168	1.095		6.70	2.00	-6.2	20.0
2-Methylnaphthalene	Ave	0.7285	0.7386		6.70	2.00	1.4	20.0
1-Methylnaphthalene	Ave	0.7444	0.6860		6.70	2.00	-7.8	20.0
Acenaphthylene	Ave	1.960	1.795		6.70	2.00	-8.4	20.0
Acenaphthene	Ave	1.154	1.093		6.70	2.00	-5.3	20.0
Fluorene	Ave	1.310	1.250		6.70	2.00	-4.6	20.0
Phenanthrene	Ave	1.276	1.193		6.70	2.00	-6.5	20.0
Anthracene	Ave	1.188	1.150		6.70	2.00	-3.2	20.0
Fluoranthene	Ave	1.270	1.223		6.70	2.00	-3.7	20.0
Pyrene	Ave	1.710	1.495		6.70	2.00	-12.6	20.0
Benzo[a]anthracene	Ave	1.271	1.218		6.70	2.00	-4.2	20.0
Chrysene	Ave	1.293	1.124		6.70	2.00	-13.1	20.0
Benzo[b]fluoranthene	Ave	1.418	1.353		6.70	2.00	-4.6	20.0
Benzo[k]fluoranthene	Ave	1.453	1.268		6.70	2.00	-12.8	20.0
Benzo[a]pyrene	Ave	1.092	1.091		2.00	2.00	-0.1	20.0
Indeno[1,2,3-cd]pyrene	Ave	1.034	1.044		6.70	2.00	0.9	20.0
Dibenz(a,h)anthracene	Ave	0.9861	0.9684		6.70	2.00	-1.8	20.0
Benzo[g,h,i]perylene	Ave	0.998	0.9596		6.70	2.00	-3.9	20.0
o-Terphenyl	Ave	1.041	0.8924		1.71	2.00	-14.3	20.0

TESTAMERICA SAVANNAH

Semivolatile REPORT SW-846 Method 8270C  
Data file : /chem/SM/MSK5973.i/1k122612.b/k12619q.d  
Lab Smp Id: ICV-2898487; LLPAH  
Inj Date : 26-DEC-2012 17:51  
Operator : LEG Inst ID: MSK5973.i  
Smp Info : ICV-2898487; LLPAH  
Misc Info :  
Comment : analysis of PAHs  
Method : /chem/SM/MSK5973.i/1k122612.b/k-b8270CLLPAH-m.m  
Meth Date : 27-Dec-2012 09:43 chemist Quant Type: ISTD  
Cal Date : 26-DEC-2012 17:28 Cal File: k12618q.d  
Als bottle: 10 Continuing Calibration Sample  
Dil Factor: 1.00000  
Integrator: HP RTE Compound Sublist: TL2007.sub  
Target Version: 3.50  
Processing Host: savchem1

Compounds	QUANT SIG	AMOUNTS						
		MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)
*	1 Naphthalene-d8	136	4.671	4.671 (1.000)		564462	2.00000	
	2 Naphthalene	128	4.689	4.689 (1.004)		618305	2.00000	1.87
	3 2-Methylnaphthalene	142	5.364	5.364 (1.148)		416906	2.00000	2.02
	4 1-Methylnaphthalene	142	5.470	5.470 (1.171)		387240	2.00000	1.84
	6 Acenaphthylene	152	6.316	6.316 (0.977)		577964	2.00000	1.83
*	5 Acenaphthene-d10	164	6.463	6.463 (1.000)		321970	2.00000	
	7 Acenaphthene	154	6.498	6.498 (1.005)		351907	2.00000	1.89
	8 Fluorene	166	7.056	7.056 (1.092)		402417	2.00000	1.90
*	9 Phenanthrene-d10	188	8.085	8.085 (1.000)		436386	2.00000	
	10 Phenanthrene	178	8.108	8.108 (1.003)		520670	2.00000	1.87
	11 Anthracene	178	8.167	8.167 (1.010)		501856	2.00000	1.93
\$	15 o-Terphenyl	230	8.496	8.496 (0.777)		326341	2.00000	1.71
	12 Fluoranthene	202	9.401	9.401 (1.163)		533494	2.00000	1.92
	14 Pyrene	202	9.642	9.642 (0.882)		546557	2.00000	1.74 (H)
	16 Benzo(a)Anthracene	228	10.917	10.917 (0.998)		445479	2.00000	1.91
*	13 Chrysene-d12	240	10.934	10.934 (1.000)		365710	2.00000	
	17 Chrysene	228	10.958	10.958 (1.002)		410898	2.00000	1.73
	19 Benzo(b)fluoranthene	252	12.139	12.139 (0.960)		445584	2.00000	1.90
	20 Benzo(k)fluoranthene	252	12.168	12.168 (0.962)		417484	2.00000	1.74
	21 Benzo(a)pyrene	252	12.574	12.574 (0.994)		359173	2.00000	1.99
*	18 Perylene-d12	264	12.650	12.650 (1.000)		329355	2.00000	
	22 Indeno(1,2,3-cd)pyrene	276	14.377	14.377 (1.315)		381651	2.00000	2.01
	23 Dibenzo(a,h)anthracene	278	14.401	14.401 (1.138)		318933	2.00000	1.96
	24 Benzo(g,h,i)perylene	276	14.906	14.906 (1.178)		316045	2.00000	1.92

QC Flag Legend

H - Operator selected an alternate compound hit.

Data File: k12619q.d

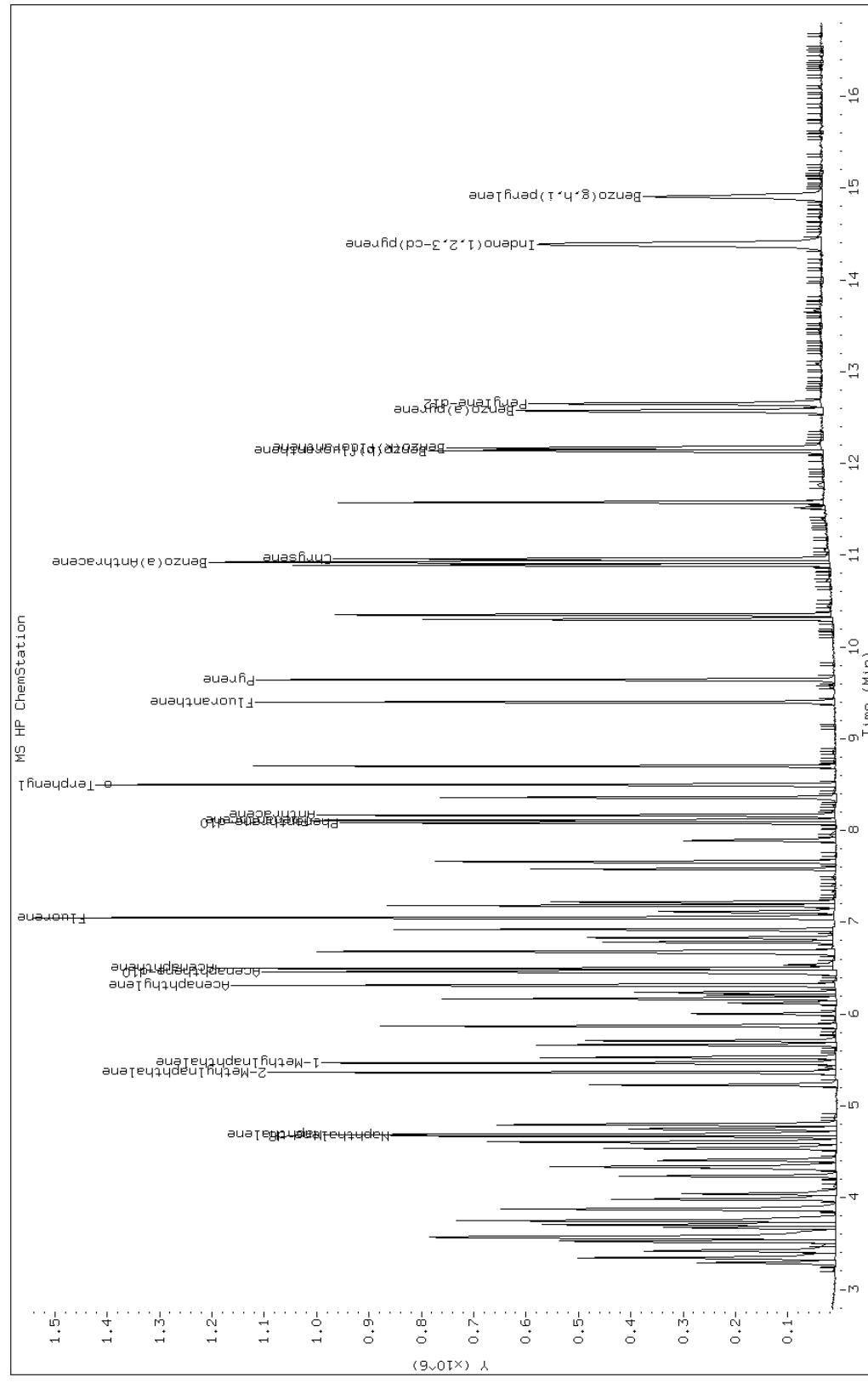
Date: 26-DEC-2012 17:51

Client ID:

Instrument: MSR5973.i

Sample Info: ICV-2898487; LLPAH

Operator: LEG



FORM VII  
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Savannah

Job No.: 680-85860-4

SDG No.: 68085860-4

Lab Sample ID: ICV 680-261214/9

Calibration Date: 12/21/2012 13:52

Instrument ID: MSY

Calib Start Date: 12/21/2012 11:14

GC Column: HP-5MS ID: 0.25 (mm)

Calib End Date: 12/21/2012 13:30

Lab File ID: yl2113q.d

Conc. Units: ug/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Naphthalene	Ave	1.179	1.128		6.70	2.00	-4.3	20.0
2-Methylnaphthalene	Ave	0.7356	0.7321		6.70	2.00	-0.5	20.0
1-Methylnaphthalene	Ave	0.7741	0.7035		6.70	2.00	-9.1	20.0
Acenaphthylene	Ave	2.067	1.863		6.70	2.00	-9.8	20.0
Acenaphthene	Ave	1.225	1.106		6.70	2.00	-9.8	20.0
Fluorene	Ave	1.374	1.321		6.70	2.00	-3.8	20.0
Phenanthrene	Ave	1.232	1.083		6.70	2.00	-12.1	20.0
Anthracene	Ave	1.178	1.038		6.70	2.00	-11.9	20.0
Fluoranthene	Ave	1.436	1.224		6.70	2.00	-14.8	20.0
Pyrene	Ave	1.815	1.592		6.70	2.00	-12.3	20.0
Benzo[a]anthracene	Ave	1.419	1.233		6.70	2.00	-13.1	20.0
Chrysene	LinF	1.442	1.143		6.70	2.00	-9.6	20.0
Benzo[b]fluoranthene	LinF	1.680	1.414		6.70	2.00	-3.4	20.0
Benzo[k]fluoranthene	LinF	1.641	1.559		2.09	2.00	4.4	20.0
Benzo[a]pyrene	LinF	1.337	1.225		2.03	2.00	1.5	20.0
Indeno[1,2,3-cd]pyrene	LinF	1.311	1.093		6.70	2.00	0.6	20.0
Dibenz(a,h)anthracene	LinF	1.207	1.043		6.70	2.00	2.9	20.0
Benzo[g,h,i]perylene	LinF	1.242	1.028		6.70	2.00	-2.1	20.0
o-Terphenyl	Ave	1.080	0.9695		1.80	2.00	-10.2	20.0

TESTAMERICA SAVANNAH

Semivolatile REPORT SW-846 Method 8270C  
Data file : /chem/SM/MSY5975.i/1y122112.b/y12113q.d  
Lab Smp Id: ICV-2898487; LLPAH  
Inj Date : 21-DEC-2012 13:52  
Operator : VHB Inst ID: MSY5975.i  
Smp Info : ICV-2898487; LLPAH  
Misc Info :  
Comment : analysis of PAHs  
Method : /chem/SM/MSY5975.i/1y122112.b/Y-b8270CLLPAH-m.m  
Meth Date : 21-Dec-2012 14:11 chemist Quant Type: ISTD  
Cal Date : 21-DEC-2012 13:30 Cal File: y12112q.d  
Als bottle: 10 Continuing Calibration Sample  
Dil Factor: 1.00000  
Integrator: HP RTE Compound Sublist: TL2007.sub  
Target Version: 3.50  
Processing Host: savchem1

Compounds	QUANT SIG	AMOUNTS						
		MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)
*	1 Naphthalene-d8	136	3.392	3.392 (1.000)		98350	2.00000	
	2 Naphthalene	128	3.413	3.413 (1.006)		110904	2.00000	1.91
	3 2-Methylnaphthalene	142	4.012	4.012 (1.183)		72000	2.00000	1.99
	4 1-Methylnaphthalene	142	4.098	4.098 (1.208)		69187	2.00000	1.81
	6 Acenaphthylene	152	4.788	4.788 (0.975)		109224	2.00000	1.80
*	5 Acenaphthene-d10	164	4.911	4.911 (1.000)		58614	2.00000	
	7 Acenaphthene	154	4.938	4.938 (1.005)		64806	2.00000	1.80
	8 Fluorene	166	5.376	5.376 (1.095)		77458	2.00000	1.92
*	9 Phenanthrene-d10	188	6.162	6.162 (1.000)		89447	2.00000	
	10 Phenanthrene	178	6.178	6.178 (1.003)		96849	2.00000	1.75
	11 Anthracene	178	6.227	6.227 (1.010)		92834	2.00000	1.76
\$	15 o-Terphenyl	230	6.494	6.494 (0.766)		68237	2.00000	1.79
	12 Fluoranthene	202	7.189	7.189 (1.167)		109450	2.00000	1.70
	14 Pyrene	202	7.382	7.382 (0.871)		112023	2.00000	1.75
	16 Benzo(a)Anthracene	228	8.462	8.462 (0.999)		86809	2.00000	1.73
*	13 Chrysene-d12	240	8.473	8.473 (1.000)		70382	2.00000	
	17 Chrysene	228	8.494	8.494 (1.003)		80440	2.00000	1.80
	19 Benzo(b)fluoranthene	252	9.409	9.409 (0.964)		89864	2.00000	1.93
	20 Benzo(k)fluoranthene	252	9.436	9.436 (0.967)		99083	2.00000	2.08
	21 Benzo(a)pyrene	252	9.703	9.703 (0.995)		77876	2.00000	2.03
*	18 Perylene-d12	264	9.757	9.757 (1.000)		63566	2.00000	
	22 Indeno(1,2,3-cd)pyrene	276	10.901	10.901 (1.287)		76902	2.00000	2.01
	23 Dibenzo(a,h)anthracene	278	10.928	10.928 (1.120)		66318	2.00000	2.05
	24 Benzo(g,h,i)perylene	276	11.244	11.244 (1.152)		65321	2.00000	1.95

Data File: y12113q.d

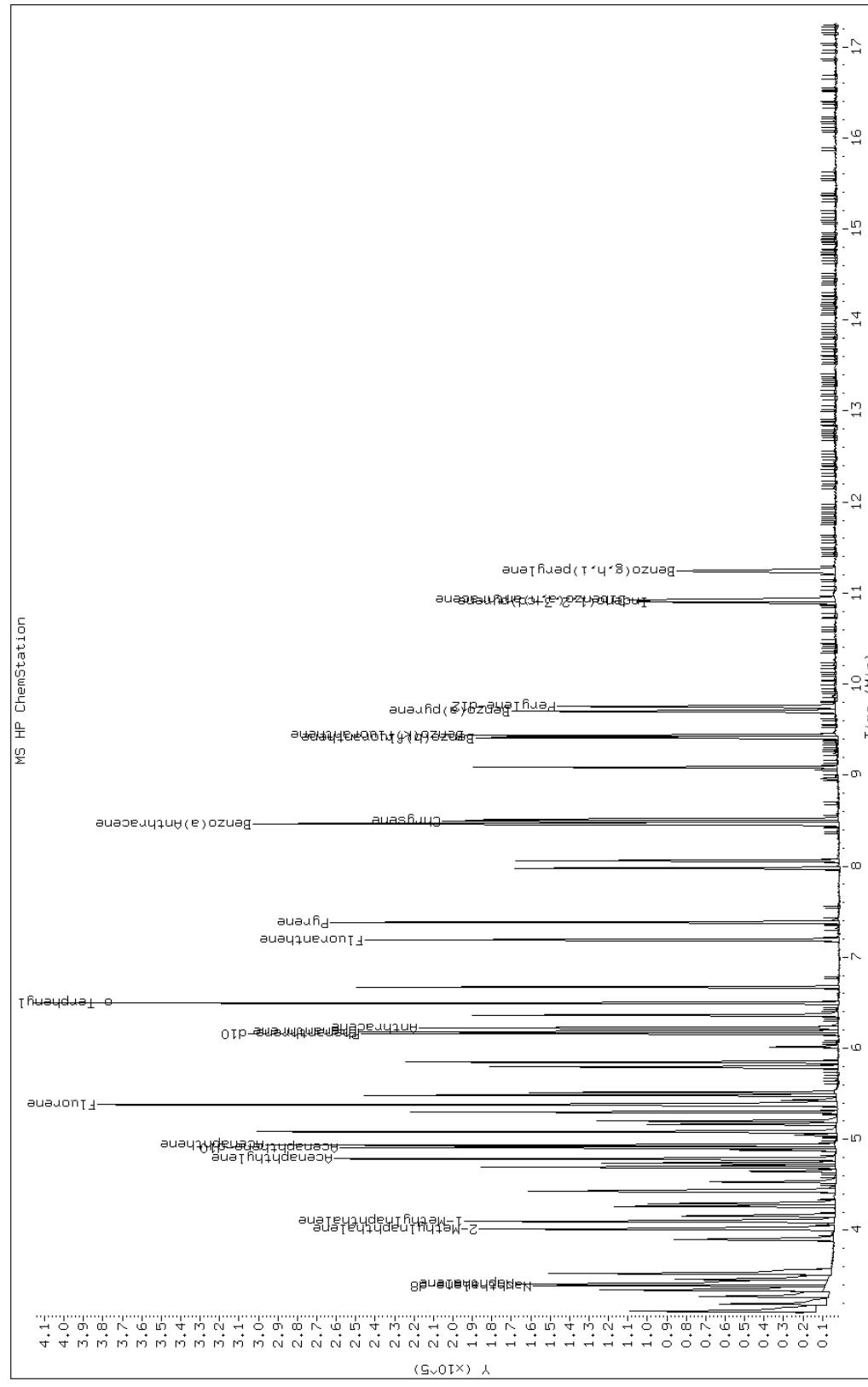
Date: 21-DEC-2012 13:52

Client ID:

Instrument: MSY5975.i

Sample Info: ICV-2898487; LLPAH

Operator: VHB



**ATTACHMENT C**

**CASE NARRATIVE**

## Case Narrative

Client: Oneida Total Integrated Enterprises LLC  
Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-85860-4  
SDG: 68085860-4

**Job ID: 680-85860-4**

**Laboratory: TestAmerica Savannah**

Narrative

### CASE NARRATIVE

**Client: Oneida Total Integrated Enterprises LLC**

**Project: 35th Avenue Superfund Site**

**Report Number: 680-85860-4**

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

#### RECEIPT

The samples were received on 12/15/2012 and 12/17/2012; the samples arrived in good condition, properly preserved and on ice. The temperatures of the 3 coolers at receipt time were 3.6° C, 4.2° C and 5.6° C.

#### **SEMIVOLATILE ORGANIC COMPOUNDS (GC/MS) LOW LEVEL PAH**

Samples CV0511AE-GS (680-85860-61), CV0511TTT-GS (680-85860-63), CV0550A-CS (680-85860-70), CV0550B-CS (680-85860-71), FM0251A-CS (680-85860-72), FM0251B-CS (680-85860-73), FM0251C-CS (680-85860-74), HP0282B-CS (680-85860-75), HP0282A-CS (680-85860-76), CV0319A-CS (680-85860-77) and CV0319B-CS (680-85860-78) were analyzed for Semivolatile Organic Compounds (GC/MS) Low level PAH in accordance with EPA SW846 Method 8270C. The samples were prepared on 12/20/2012 and analyzed on 12/21/2012, 12/26/2012 and 12/27/2012.

Samples CV0550A-CS (680-85860-70)[10X], CV0550B-CS (680-85860-71)[10X], FM0251A-CS (680-85860-72)[10X], FM0251B-CS (680-85860-73)[10X], FM0251C-CS (680-85860-74)[10X], HP0282B-CS (680-85860-75)[10X], HP0282A-CS (680-85860-76)[10X], CV0319A-CS (680-85860-77)[10X] and CV0319B-CS (680-85860-78)[10X] required dilution prior to analysis. The reporting limits have been adjusted accordingly. o-Terphenyl recovered outside the surrogate recovery criteria for these samples as they were diluted beyond the quantitation limit. Also, internal standard responses were outside of acceptance limits for the following samples: CV0319B-CS (680-85860-78). The sample(s) shows evidence of matrix interference.

Fluoranthene recovered outside the recovery criteria for the MS/MSD of sample CV0511TTT-GS (680-85860-63) in batch 680-261200.

Refer to the QC report for details.

No other difficulties were encountered during the Low-Level PAH analyses.

All other quality control parameters were within the acceptance limits.

**ATTACHMENT D**  
**QUALIFIED SAMPLE RESULTS**

# Client Sample Results

Client: Oneida Total Integrated Enterprises LLC  
 Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-85860-4  
 SDG: 68085860-4

**Client Sample ID: CV0511AE-GS**

Date Collected: 12/13/12 15:15  
 Date Received: 12/15/12 10:03

**Lab Sample ID: 680-85860-61**

Matrix: Solid  
 Percent Solids: 56.0

**Method: 8270C\_LL\_PAH - Semivolatile Organic Compounds (GC/MS) Low level PAH**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	12	U	12	5.5	ug/Kg	⊗	12/20/12 18:29	12/21/12 18:29	1
2-Methylnaphthalene	7.2	J	12	5.9	ug/Kg	⊗	12/20/12 18:29	12/21/12 18:29	1
Acenaphthene	12	U	12	5.9	ug/Kg	⊗	12/20/12 18:29	12/21/12 18:29	1
Acenaphthylene	12	U	12	5.9	ug/Kg	⊗	12/20/12 18:29	12/21/12 18:29	1
Anthracene	12	U	12	5.9	ug/Kg	⊗	12/20/12 18:29	12/21/12 18:29	1
Benzo[a]anthracene	12		12	5.9	ug/Kg	⊗	12/20/12 18:29	12/21/12 18:29	1
Benzo[a]pyrene	14		12	2.1	ug/Kg	⊗	12/20/12 18:29	12/21/12 18:29	1
Benzo[b]fluoranthene	21		12	5.9	ug/Kg	⊗	12/20/12 18:29	12/21/12 18:29	1
Benzo[g,h,i]perylene	12	U	12	5.9	ug/Kg	⊗	12/20/12 18:29	12/21/12 18:29	1
Benzo[k]fluoranthene	8.5	J	12	3.6	ug/Kg	⊗	12/20/12 18:29	12/21/12 18:29	1
Chrysene	16		12	5.9	ug/Kg	⊗	12/20/12 18:29	12/21/12 18:29	1
Dibenz(a,h)anthracene	12	U	12	5.9	ug/Kg	⊗	12/20/12 18:29	12/21/12 18:29	1
Fluoranthene	29		12	5.9	ug/Kg	⊗	12/20/12 18:29	12/21/12 18:29	1
Fluorene	12	U	12	5.9	ug/Kg	⊗	12/20/12 18:29	12/21/12 18:29	1
Indeno[1,2,3-cd]pyrene	12	U	12	5.9	ug/Kg	⊗	12/20/12 18:29	12/21/12 18:29	1
Naphthalene	13		12	5.9	ug/Kg	⊗	12/20/12 18:29	12/21/12 18:29	1
Pyrene	28		12	5.9	ug/Kg	⊗	12/20/12 18:29	12/21/12 18:29	1
Phenanthrene	17		12	4.3	ug/Kg	⊗	12/20/12 18:29	12/21/12 18:29	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
<i>o-Terphenyl</i>	54		36 - 131				12/20/12 18:29	12/21/12 18:29	1

**Client Sample ID: CV0511TTT-GS**

Date Collected: 12/13/12 15:40  
 Date Received: 12/17/12 09:24

**Lab Sample ID: 680-85860-63**

Matrix: Solid  
 Percent Solids: 75.1

**Method: 8270C\_LL\_PAH - Semivolatile Organic Compounds (GC/MS) Low level PAH**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	13		8.9	4.1	ug/Kg	⊗	12/20/12 18:29	12/21/12 19:16	1
2-Methylnaphthalene	19		8.9	4.4	ug/Kg	⊗	12/20/12 18:29	12/21/12 19:16	1
Acenaphthene	9.4		8.9	4.4	ug/Kg	⊗	12/20/12 18:29	12/21/12 19:16	1
Acenaphthylene	8.9	U	8.9	4.4	ug/Kg	⊗	12/20/12 18:29	12/21/12 19:16	1
Anthracene	20		8.9	4.4	ug/Kg	⊗	12/20/12 18:29	12/21/12 19:16	1
Benzo[a]anthracene	110		8.9	4.4	ug/Kg	⊗	12/20/12 18:29	12/21/12 19:16	1
Benzo[a]pyrene	130		8.9	1.6	ug/Kg	⊗	12/20/12 18:29	12/21/12 19:16	1
Benzo[b]fluoranthene	210		8.9	4.4	ug/Kg	⊗	12/20/12 18:29	12/21/12 19:16	1
Benzo[g,h,i]perylene	36		8.9	4.4	ug/Kg	⊗	12/20/12 18:29	12/21/12 19:16	1
Benzo[k]fluoranthene	86		8.9	2.6	ug/Kg	⊗	12/20/12 18:29	12/21/12 19:16	1
Chrysene	150		8.9	4.4	ug/Kg	⊗	12/20/12 18:29	12/21/12 19:16	1
Dibenz(a,h)anthracene	14		8.9	4.4	ug/Kg	⊗	12/20/12 18:29	12/21/12 19:16	1
Fluoranthene	280	J	8.9	4.4	ug/Kg	⊗	12/20/12 18:29	12/21/12 19:16	1
Fluorene	8.7	J	8.9	4.4	ug/Kg	⊗	12/20/12 18:29	12/21/12 19:16	1
Indeno[1,2,3-cd]pyrene	30		8.9	4.4	ug/Kg	⊗	12/20/12 18:29	12/21/12 19:16	1
Naphthalene	20		8.9	4.4	ug/Kg	⊗	12/20/12 18:29	12/21/12 19:16	1
Pyrene	260		8.9	4.4	ug/Kg	⊗	12/20/12 18:29	12/21/12 19:16	1
Phenanthrene	120		8.9	3.2	ug/Kg	⊗	12/20/12 18:29	12/21/12 19:16	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
<i>o-Terphenyl</i>	54		36 - 131				12/20/12 18:29	12/21/12 19:16	1

1 Sample results have been qualified by URIS in accordance with the Non-Industrial Use Sampling Event QAPP for the 35<sup>th</sup> Avenue Removal Site.

TestAmerica Savannah

# Client Sample Results

Client: Oneida Total Integrated Enterprises LLC  
 Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-85860-4  
 SDG: 68085860-4

## Client Sample ID: CV0550A-CS

Date Collected: 12/13/12 09:03  
 Date Received: 12/17/12 09:24

## Lab Sample ID: 680-85860-70

Matrix: Solid  
 Percent Solids: 75.2

### Method: 8270C\_LL\_PAH - Semivolatile Organic Compounds (GC/MS) Low level PAH

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	68	J	89	41	ug/Kg	⊗	12/20/12 18:29	12/21/12 19:39	10
2-Methylnaphthalene	100		89	44	ug/Kg	⊗	12/20/12 18:29	12/21/12 19:39	10
Acenaphthene	89	U	89	44	ug/Kg	⊗	12/20/12 18:29	12/21/12 19:39	10
Acenaphthylene	89	U	89	44	ug/Kg	⊗	12/20/12 18:29	12/21/12 19:39	10
Anthracene	89	U	89	44	ug/Kg	⊗	12/20/12 18:29	12/21/12 19:39	10
Benzo[a]anthracene	170		89	44	ug/Kg	⊗	12/20/12 18:29	12/21/12 19:39	10
Benzo[a]pyrene	160		89	16	ug/Kg	⊗	12/20/12 18:29	12/21/12 19:39	10
Benzo[b]fluoranthene	270		89	44	ug/Kg	⊗	12/20/12 18:29	12/21/12 19:39	10
Benzo[g,h,i]perylene	60	J	89	44	ug/Kg	⊗	12/20/12 18:29	12/21/12 19:39	10
Benzo[k]fluoranthene	120		89	26	ug/Kg	⊗	12/20/12 18:29	12/21/12 19:39	10
Chrysene	230		89	44	ug/Kg	⊗	12/20/12 18:29	12/21/12 19:39	10
Dibenz(a,h)anthracene	89	U	89	44	ug/Kg	⊗	12/20/12 18:29	12/21/12 19:39	10
Fluoranthene	290		89	44	ug/Kg	⊗	12/20/12 18:29	12/21/12 19:39	10
Fluorene	89	U	89	44	ug/Kg	⊗	12/20/12 18:29	12/21/12 19:39	10
Indeno[1,2,3-cd]pyrene	48	J	89	44	ug/Kg	⊗	12/20/12 18:29	12/21/12 19:39	10
Naphthalene	80	J	89	44	ug/Kg	⊗	12/20/12 18:29	12/21/12 19:39	10
Pyrene	290		89	44	ug/Kg	⊗	12/20/12 18:29	12/21/12 19:39	10
Phenanthrene	210		89	32	ug/Kg	⊗	12/20/12 18:29	12/21/12 19:39	10
<b>Surrogate</b>									
<i>o-Terphenyl</i>	0	D							
					<b>Limits</b>				
					36 - 131				
							<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
							12/20/12 18:29	12/21/12 19:39	10

## Client Sample ID: CV0550B-CS

Date Collected: 12/14/12 08:47  
 Date Received: 12/17/12 09:24

## Lab Sample ID: 680-85860-71

Matrix: Solid  
 Percent Solids: 75.0

### Method: 8270C\_LL\_PAH - Semivolatile Organic Compounds (GC/MS) Low level PAH

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	49	J	89	41	ug/Kg	⊗	12/20/12 18:29	12/21/12 19:54	10
2-Methylnaphthalene	67	J	89	44	ug/Kg	⊗	12/20/12 18:29	12/21/12 19:54	10
Acenaphthene	89	U	89	44	ug/Kg	⊗	12/20/12 18:29	12/21/12 19:54	10
Acenaphthylene	89	U	89	44	ug/Kg	⊗	12/20/12 18:29	12/21/12 19:54	10
Anthracene	89	U	89	44	ug/Kg	⊗	12/20/12 18:29	12/21/12 19:54	10
Benzo[a]anthracene	160		89	44	ug/Kg	⊗	12/20/12 18:29	12/21/12 19:54	10
Benzo[a]pyrene	180		89	16	ug/Kg	⊗	12/20/12 18:29	12/21/12 19:54	10
Benzo[b]fluoranthene	260		89	44	ug/Kg	⊗	12/20/12 18:29	12/21/12 19:54	10
Benzo[g,h,i]perylene	130		89	44	ug/Kg	⊗	12/20/12 18:29	12/21/12 19:54	10
Benzo[k]fluoranthene	95		89	27	ug/Kg	⊗	12/20/12 18:29	12/21/12 19:54	10
Chrysene	210		89	44	ug/Kg	⊗	12/20/12 18:29	12/21/12 19:54	10
Dibenz(a,h)anthracene	60	J	89	44	ug/Kg	⊗	12/20/12 18:29	12/21/12 19:54	10
Fluoranthene	300		89	44	ug/Kg	⊗	12/20/12 18:29	12/21/12 19:54	10
Fluorene	89	U	89	44	ug/Kg	⊗	12/20/12 18:29	12/21/12 19:54	10
Indeno[1,2,3-cd]pyrene	110	J	89	44	ug/Kg	⊗	12/20/12 18:29	12/21/12 19:54	10
Naphthalene	77	J	89	44	ug/Kg	⊗	12/20/12 18:29	12/21/12 19:54	10
Pyrene	250		89	44	ug/Kg	⊗	12/20/12 18:29	12/21/12 19:54	10
Phenanthrene	190		89	32	ug/Kg	⊗	12/20/12 18:29	12/21/12 19:54	10
<b>Surrogate</b>					<b>Limits</b>				
<i>o-Terphenyl</i>	0	D			36 - 131				
							<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
							12/20/12 18:29	12/21/12 19:54	10

TestAmerica Savannah

# Client Sample Results

Client: Oneida Total Integrated Enterprises LLC  
 Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-85860-4  
 SDG: 68085860-4

## Client Sample ID: FM0251A-CS

Date Collected: 12/14/12 10:18  
 Date Received: 12/17/12 09:24

## Lab Sample ID: 680-85860-72

Matrix: Solid  
 Percent Solids: 81.3

### Method: 8270C\_LL\_PAH - Semivolatile Organic Compounds (GC/MS) Low level PAH

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	47	J	81	38	ug/Kg	⊗	12/20/12 18:29	12/21/12 20:26	10
2-Methylnaphthalene	76	J	81	40	ug/Kg	⊗	12/20/12 18:29	12/21/12 20:26	10
Acenaphthene	81	U	81	40	ug/Kg	⊗	12/20/12 18:29	12/21/12 20:26	10
Acenaphthylene	81	U	81	40	ug/Kg	⊗	12/20/12 18:29	12/21/12 20:26	10
Anthracene	130		81	40	ug/Kg	⊗	12/20/12 18:29	12/21/12 20:26	10
Benzo[a]anthracene	950		81	40	ug/Kg	⊗	12/20/12 18:29	12/21/12 20:26	10
Benzo[a]pyrene	780		81	15	ug/Kg	⊗	12/20/12 18:29	12/21/12 20:26	10
Benzo[b]fluoranthene	1500		81	40	ug/Kg	⊗	12/20/12 18:29	12/21/12 20:26	10
Benzo[g,h,i]perylene	81	U	81	40	ug/Kg	⊗	12/20/12 18:29	12/21/12 20:26	10
Benzo[k]fluoranthene	850		81	24	ug/Kg	⊗	12/20/12 18:29	12/21/12 20:26	10
Chrysene	1000		81	40	ug/Kg	⊗	12/20/12 18:29	12/21/12 20:26	10
Dibenz(a,h)anthracene	81	U	81	40	ug/Kg	⊗	12/20/12 18:29	12/21/12 20:26	10
Fluoranthene	2000		81	40	ug/Kg	⊗	12/20/12 18:29	12/21/12 20:26	10
Fluorene	81	U	81	40	ug/Kg	⊗	12/20/12 18:29	12/21/12 20:26	10
Indeno[1,2,3-cd]pyrene	200		81	40	ug/Kg	⊗	12/20/12 18:29	12/21/12 20:26	10
Naphthalene	110		81	40	ug/Kg	⊗	12/20/12 18:29	12/21/12 20:26	10
Pyrene	1800		81	40	ug/Kg	⊗	12/20/12 18:29	12/21/12 20:26	10
Phenanthrene	780		81	29	ug/Kg	⊗	12/20/12 18:29	12/21/12 20:26	10
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>		<b>Limits</b>			<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
<i>o-Terphenyl</i>	0	D		36 - 131			12/20/12 18:29	12/21/12 20:26	10

## Client Sample ID: FM0251B-CS

Date Collected: 12/14/12 10:00  
 Date Received: 12/17/12 09:24

## Lab Sample ID: 680-85860-73

Matrix: Solid  
 Percent Solids: 68.5

### Method: 8270C\_LL\_PAH - Semivolatile Organic Compounds (GC/MS) Low level PAH

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	100		98	45	ug/Kg	⊗	12/20/12 18:29	12/21/12 20:03	10
2-Methylnaphthalene	130		98	48	ug/Kg	⊗	12/20/12 18:29	12/21/12 20:03	10
Acenaphthene	98	U	98	48	ug/Kg	⊗	12/20/12 18:29	12/21/12 20:03	10
Acenaphthylene	98	U	98	48	ug/Kg	⊗	12/20/12 18:29	12/21/12 20:03	10
Anthracene	130		98	48	ug/Kg	⊗	12/20/12 18:29	12/21/12 20:03	10
Benzo[a]anthracene	740		98	48	ug/Kg	⊗	12/20/12 18:29	12/21/12 20:03	10
Benzo[a]pyrene	790		98	17	ug/Kg	⊗	12/20/12 18:29	12/21/12 20:03	10
Benzo[b]fluoranthene	1400		98	48	ug/Kg	⊗	12/20/12 18:29	12/21/12 20:03	10
Benzo[g,h,i]perylene	290		98	48	ug/Kg	⊗	12/20/12 18:29	12/21/12 20:03	10
Benzo[k]fluoranthene	600		98	29	ug/Kg	⊗	12/20/12 18:29	12/21/12 20:03	10
Chrysene	980		98	48	ug/Kg	⊗	12/20/12 18:29	12/21/12 20:03	10
Dibenz(a,h)anthracene	120		98	48	ug/Kg	⊗	12/20/12 18:29	12/21/12 20:03	10
Fluoranthene	1500		98	48	ug/Kg	⊗	12/20/12 18:29	12/21/12 20:03	10
Fluorene	61	J	98	48	ug/Kg	⊗	12/20/12 18:29	12/21/12 20:03	10
Indeno[1,2,3-cd]pyrene	180		98	48	ug/Kg	⊗	12/20/12 18:29	12/21/12 20:03	10
Naphthalene	150		98	48	ug/Kg	⊗	12/20/12 18:29	12/21/12 20:03	10
Pyrene	1500		98	48	ug/Kg	⊗	12/20/12 18:29	12/21/12 20:03	10
Phenanthrene	920		98	35	ug/Kg	⊗	12/20/12 18:29	12/21/12 20:03	10
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>		<b>Limits</b>			<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
<i>o-Terphenyl</i>	0	D		36 - 131			12/20/12 18:29	12/21/12 20:03	10

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# Client Sample Results

Client: Oneida Total Integrated Enterprises LLC  
 Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-85860-4  
 SDG: 68085860-4

## Client Sample ID: FM0251C-CS

Date Collected: 12/14/12 10:05  
 Date Received: 12/17/12 09:24

## Lab Sample ID: 680-85860-74

Matrix: Solid  
 Percent Solids: 76.2

### Method: 8270C\_LL\_PAH - Semivolatile Organic Compounds (GC/MS) Low level PAH

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	66	J	87	40	ug/Kg	⊗	12/20/12 18:29	12/26/12 20:12	10
2-Methylnaphthalene	93		87	43	ug/Kg	⊗	12/20/12 18:29	12/26/12 20:12	10
Acenaphthene	87	U	87	43	ug/Kg	⊗	12/20/12 18:29	12/26/12 20:12	10
Acenaphthylene	87	U	87	43	ug/Kg	⊗	12/20/12 18:29	12/26/12 20:12	10
Anthracene	87	U	87	43	ug/Kg	⊗	12/20/12 18:29	12/26/12 20:12	10
Benzo[a]anthracene	290		87	43	ug/Kg	⊗	12/20/12 18:29	12/26/12 20:12	10
Benzo[a]pyrene	310		87	16	ug/Kg	⊗	12/20/12 18:29	12/26/12 20:12	10
Benzo[b]fluoranthene	510		87	43	ug/Kg	⊗	12/20/12 18:29	12/26/12 20:12	10
Benzo[g,h,i]perylene	170		87	43	ug/Kg	⊗	12/20/12 18:29	12/26/12 20:12	10
Benzo[k]fluoranthene	150		87	26	ug/Kg	⊗	12/20/12 18:29	12/26/12 20:12	10
Chrysene	380		87	43	ug/Kg	⊗	12/20/12 18:29	12/26/12 20:12	10
Dibenz(a,h)anthracene	87	U	87	43	ug/Kg	⊗	12/20/12 18:29	12/26/12 20:12	10
Fluoranthene	550		87	43	ug/Kg	⊗	12/20/12 18:29	12/26/12 20:12	10
Fluorene	87	U	87	43	ug/Kg	⊗	12/20/12 18:29	12/26/12 20:12	10
Indeno[1,2,3-cd]pyrene	130		87	43	ug/Kg	⊗	12/20/12 18:29	12/26/12 20:12	10
Naphthalene	160		87	43	ug/Kg	⊗	12/20/12 18:29	12/26/12 20:12	10
Pyrene	470		87	43	ug/Kg	⊗	12/20/12 18:29	12/26/12 20:12	10
Phenanthrene	310		87	31	ug/Kg	⊗	12/20/12 18:29	12/26/12 20:12	10
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>			<b>Limits</b>		<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
<i>o-Terphenyl</i>	0	D			36 - 131		12/20/12 18:29	12/26/12 20:12	10

## Client Sample ID: HP0282B-CS

Date Collected: 12/14/12 10:15  
 Date Received: 12/17/12 09:24

## Lab Sample ID: 680-85860-75

Matrix: Solid  
 Percent Solids: 73.5

### Method: 8270C\_LL\_PAH - Semivolatile Organic Compounds (GC/MS) Low level PAH

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	77	J	90	42	ug/Kg	⊗	12/20/12 18:29	12/26/12 20:36	10
2-Methylnaphthalene	150		90	44	ug/Kg	⊗	12/20/12 18:29	12/26/12 20:36	10
Acenaphthene	90	U	90	44	ug/Kg	⊗	12/20/12 18:29	12/26/12 20:36	10
Acenaphthylene	90	U	90	44	ug/Kg	⊗	12/20/12 18:29	12/26/12 20:36	10
Anthracene	53	J	90	44	ug/Kg	⊗	12/20/12 18:29	12/26/12 20:36	10
Benzo[a]anthracene	410		90	44	ug/Kg	⊗	12/20/12 18:29	12/26/12 20:36	10
Benzo[a]pyrene	510		90	16	ug/Kg	⊗	12/20/12 18:29	12/26/12 20:36	10
Benzo[b]fluoranthene	780		90	44	ug/Kg	⊗	12/20/12 18:29	12/26/12 20:36	10
Benzo[g,h,i]perylene	300		90	44	ug/Kg	⊗	12/20/12 18:29	12/26/12 20:36	10
Benzo[k]fluoranthene	380		90	27	ug/Kg	⊗	12/20/12 18:29	12/26/12 20:36	10
Chrysene	590		90	44	ug/Kg	⊗	12/20/12 18:29	12/26/12 20:36	10
Dibenz(a,h)anthracene	88	J	90	44	ug/Kg	⊗	12/20/12 18:29	12/26/12 20:36	10
Fluoranthene	910		90	44	ug/Kg	⊗	12/20/12 18:29	12/26/12 20:36	10
Fluorene	90	U	90	44	ug/Kg	⊗	12/20/12 18:29	12/26/12 20:36	10
Indeno[1,2,3-cd]pyrene	220		90	44	ug/Kg	⊗	12/20/12 18:29	12/26/12 20:36	10
Naphthalene	280		90	44	ug/Kg	⊗	12/20/12 18:29	12/26/12 20:36	10
Pyrene	830		90	44	ug/Kg	⊗	12/20/12 18:29	12/26/12 20:36	10
Phenanthrene	530		90	32	ug/Kg	⊗	12/20/12 18:29	12/26/12 20:36	10
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>			<b>Limits</b>		<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
<i>o-Terphenyl</i>	0	D			36 - 131		12/20/12 18:29	12/26/12 20:36	10

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# Client Sample Results

Client: Oneida Total Integrated Enterprises LLC  
 Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-85860-4  
 SDG: 68085860-4

## Client Sample ID: HP0282A-CS

Date Collected: 12/14/12 10:00  
 Date Received: 12/17/12 09:24

## Lab Sample ID: 680-85860-76

Matrix: Solid  
 Percent Solids: 78.7

### Method: 8270C\_LL\_PAH - Semivolatile Organic Compounds (GC/MS) Low level PAH

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	39	J	84	39	ug/Kg	⊗	12/20/12 18:29	12/27/12 16:17	10
2-Methylnaphthalene	57	J	84	41	ug/Kg	⊗	12/20/12 18:29	12/27/12 16:17	10
Acenaphthene	84	U	84	41	ug/Kg	⊗	12/20/12 18:29	12/27/12 16:17	10
Acenaphthylene	84	U	84	41	ug/Kg	⊗	12/20/12 18:29	12/27/12 16:17	10
Anthracene	84	U	84	41	ug/Kg	⊗	12/20/12 18:29	12/27/12 16:17	10
Benzo[a]anthracene	45	J	84	41	ug/Kg	⊗	12/20/12 18:29	12/27/12 16:17	10
Benzo[a]pyrene	49	J	84	15	ug/Kg	⊗	12/20/12 18:29	12/27/12 16:17	10
Benzo[b]fluoranthene	85		84	41	ug/Kg	⊗	12/20/12 18:29	12/27/12 16:17	10
Benzo[g,h,i]perylene	44	J	84	41	ug/Kg	⊗	12/20/12 18:29	12/27/12 16:17	10
Benzo[k]fluoranthene	27	J	84	25	ug/Kg	⊗	12/20/12 18:29	12/27/12 16:17	10
Chrysene	91		84	41	ug/Kg	⊗	12/20/12 18:29	12/27/12 16:17	10
Dibenz(a,h)anthracene	84	U	84	41	ug/Kg	⊗	12/20/12 18:29	12/27/12 16:17	10
Fluoranthene	76	J	84	41	ug/Kg	⊗	12/20/12 18:29	12/27/12 16:17	10
Fluorene	84	U	84	41	ug/Kg	⊗	12/20/12 18:29	12/27/12 16:17	10
Indeno[1,2,3-cd]pyrene	84	U	84	41	ug/Kg	⊗	12/20/12 18:29	12/27/12 16:17	10
Naphthalene	42	J	84	41	ug/Kg	⊗	12/20/12 18:29	12/27/12 16:17	10
Pyrene	62	J	84	41	ug/Kg	⊗	12/20/12 18:29	12/27/12 16:17	10
Phenanthrene	85		84	30	ug/Kg	⊗	12/20/12 18:29	12/27/12 16:17	10
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>		<b>Limits</b>			<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
<i>o-Terphenyl</i>	0	D		36 - 131			12/20/12 18:29	12/27/12 16:17	10

## Client Sample ID: CV0319A-CS

Date Collected: 12/14/12 08:45  
 Date Received: 12/17/12 09:24

## Lab Sample ID: 680-85860-77

Matrix: Solid  
 Percent Solids: 78.4

### Method: 8270C\_LL\_PAH - Semivolatile Organic Compounds (GC/MS) Low level PAH

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	44	J	84	39	ug/Kg	⊗	12/20/12 18:29	12/21/12 17:53	10
2-Methylnaphthalene	70	J	84	41	ug/Kg	⊗	12/20/12 18:29	12/21/12 17:53	10
Acenaphthene	84	U	84	41	ug/Kg	⊗	12/20/12 18:29	12/21/12 17:53	10
Acenaphthylene	84	U	84	41	ug/Kg	⊗	12/20/12 18:29	12/21/12 17:53	10
Anthracene	84	U	84	41	ug/Kg	⊗	12/20/12 18:29	12/21/12 17:53	10
Benzo[a]anthracene	120		84	41	ug/Kg	⊗	12/20/12 18:29	12/21/12 17:53	10
Benzo[a]pyrene	180		84	15	ug/Kg	⊗	12/20/12 18:29	12/21/12 17:53	10
Benzo[b]fluoranthene	240		84	41	ug/Kg	⊗	12/20/12 18:29	12/21/12 17:53	10
Benzo[g,h,i]perylene	140		84	41	ug/Kg	⊗	12/20/12 18:29	12/21/12 17:53	10
Benzo[k]fluoranthene	130		84	25	ug/Kg	⊗	12/20/12 18:29	12/21/12 17:53	10
Chrysene	190		84	41	ug/Kg	⊗	12/20/12 18:29	12/21/12 17:53	10
Dibenz(a,h)anthracene	64	J	84	41	ug/Kg	⊗	12/20/12 18:29	12/21/12 17:53	10
Fluoranthene	200		84	41	ug/Kg	⊗	12/20/12 18:29	12/21/12 17:53	10
Fluorene	84	U	84	41	ug/Kg	⊗	12/20/12 18:29	12/21/12 17:53	10
Indeno[1,2,3-cd]pyrene	120		84	41	ug/Kg	⊗	12/20/12 18:29	12/21/12 17:53	10
Naphthalene	84	U	84	41	ug/Kg	⊗	12/20/12 18:29	12/21/12 17:53	10
Pyrene	170		84	41	ug/Kg	⊗	12/20/12 18:29	12/21/12 17:53	10
Phenanthrene	130		84	30	ug/Kg	⊗	12/20/12 18:29	12/21/12 17:53	10
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>		<b>Limits</b>			<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
<i>o-Terphenyl</i>	0	D		36 - 131			12/20/12 18:29	12/21/12 17:53	10

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# Client Sample Results

Client: Oneida Total Integrated Enterprises LLC  
 Project/Site: 35th Avenue Superfund Site

TestAmerica Job ID: 680-85860-4  
 SDG: 68085860-4

**Client Sample ID: CV0319B-CS**

**Lab Sample ID: 680-85860-78**

Date Collected: 12/14/12 09:05  
 Date Received: 12/17/12 09:24

Matrix: Solid  
 Percent Solids: 73.5

**Method: 8270C\_LL\_PAH - Semivolatile Organic Compounds (GC/MS) Low level PAH**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	62	J	90	42	ug/Kg	⊗	12/20/12 18:29	12/27/12 17:08	10
2-Methylnaphthalene	100		90	45	ug/Kg	⊗	12/20/12 18:29	12/27/12 17:08	10
Acenaphthene	90	U	90	45	ug/Kg	⊗	12/20/12 18:29	12/27/12 17:08	10
Acenaphthylene	90	U	90	45	ug/Kg	⊗	12/20/12 18:29	12/27/12 17:08	10
Anthracene	74	J	90	45	ug/Kg	⊗	12/20/12 18:29	12/27/12 17:08	10
Benzo[a]anthracene	230		90	45	ug/Kg	⊗	12/20/12 18:29	12/27/12 17:08	10
Benzo[a]pyrene	240		90	16	ug/Kg	⊗	12/20/12 18:29	12/27/12 17:08	10
Benzo[b]fluoranthene	400		90	45	ug/Kg	⊗	12/20/12 18:29	12/27/12 17:08	10
Benzo[g,h,i]perylene	170	J	90	45	ug/Kg	⊗	12/20/12 18:29	12/27/12 17:08	10
Benzo[k]fluoranthene	170		90	27	ug/Kg	⊗	12/20/12 18:29	12/27/12 17:08	10
Chrysene	310		90	45	ug/Kg	⊗	12/20/12 18:29	12/27/12 17:08	10
Dibenz(a,h)anthracene	73	J	90	45	ug/Kg	⊗	12/20/12 18:29	12/27/12 17:08	10
Fluoranthene	490		90	45	ug/Kg	⊗	12/20/12 18:29	12/27/12 17:08	10
Fluorene	90	U	90	45	ug/Kg	⊗	12/20/12 18:29	12/27/12 17:08	10
Indeno[1,2,3-cd]pyrene	130	J	90	45	ug/Kg	⊗	12/20/12 18:29	12/27/12 17:08	10
Naphthalene	92		90	45	ug/Kg	⊗	12/20/12 18:29	12/27/12 17:08	10
Pyrene	450		90	45	ug/Kg	⊗	12/20/12 18:29	12/27/12 17:08	10
Phenanthrene	410		90	32	ug/Kg	⊗	12/20/12 18:29	12/27/12 17:08	10
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>		<b>Limits</b>			<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
<i>o-Terphenyl</i>	0	D		36 - 131			12/20/12 18:29	12/27/12 17:08	10

Sample results have been qualified by URS in accordance with the Non-Industrial Use Property Sampling Event QAPP for the 35th Avenue Removal Site, Birmingham, Alabama, Revision 1 (OTIE, October 2012)